

## PATENT

**B. AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method for preventing malicious network attacks said method comprising:  
providing a test script, the test script including one or more attack simulations;  
processing the attack simulations included in the test script;  
determining whether to change one or more configuration settings based upon the processing;  
changing one or more of the configuration settings based upon the determination;  
receiving a packet from a client computer;  
identifying the client computer by a source IP address;  
calculating a number of packets received using the source IP address during a time interval, wherein the calculating includes:  
retrieving a number of packets received that correspond to the source IP address; and  
~~identifying a client data area based on the source IP address, the client data area including the number of packets received; and~~  
incrementing the number of packets received;  
comparing the incremented number of packets received with one or more of the configuration settings;  
determining an action from a plurality of actions based on the comparing; and  
executing the action.
2. (Previously Canceled)

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3. (Previously Canceled)
4. (Previously Canceled)
5. (Original) The method described in claim 1 further comprising:  
receiving a socket request from the client computer;  
determining a number of sockets opened for the client computer;  
comparing the number of sockets opened to a socket limit;  
and  
determining whether to allow a socket request based on the comparison.
6. (Previously Canceled)
7. (Canceled)
8. (Currently Amended) An information handling system comprising:  
one or more processors;  
a memory accessible by the processors;  
one or more nonvolatile storage devices accessible by the processors;  
a network interface for receiving packets from a computer network; and  
a packet handling tool to manage packets received from the network interface, the packet handling tool including:  
means for providing a test script, the test script  
including one or more attack simulations;

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means for processing the attack simulations included in the test script;

means for determining whether to change one or more configuration settings based upon the processing;

means for changing one or more of the configuration settings based upon the determination;

means for receiving a packet from a client computer through the network interface;

means for identifying the client computer by a source IP address;

means for calculating a number of packets received using the source IP address during a time interval, wherein the calculating includes:

means for retrieving a number of packets received that correspond to the source IP address; and

~~means for identifying a client data area based on the source IP address, the client data area including the number of packets received; and~~

means for incrementing the number of packets received;

means for comparing the incremented number of packets received with one or more of the configuration settings;

means for determining an action from a plurality of actions based on the comparing; and

means for executing the action.

9. (Previously Canceled)

10. (Previously Canceled)

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11. (Original) The information handling system as described in claim 8 further comprising:

means for receiving a socket request from the client computer;

means for determining a number of sockets opened for the client computer;

means for comparing the number of sockets opened to a socket limit; and

means for determining whether to allow a socket request based on the comparison.

12. (Previously Canceled)

13. (Canceled)

14. (Currently Amended) A computer program product stored on a computer operable media, the computer operable media containing instructions for execution by a computer, which, when executed by the computer, cause the computer to implement a method for preventing malicious attacks, the method comprising: ~~for preventing malicious network attacks, said computer program product comprising:~~ providing a test script, the test script including one or more attack simulations;  
processing the attack simulations included in the test script;  
determining whether to change one or more configuration settings based upon the processing;  
changing one or more of the configuration settings based upon the determination;

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~~means for~~ receiving a packet from a client computer through the network interface;

~~means for~~ identifying the client computer by a source IP address;

~~means for~~ calculating a number of packets received using the source IP address during a time interval, wherein the calculating includes:

retrieving a number of packets received that correspond to the source IP address; and

~~means for identifying a client data area based on the source IP address, the client data area including the number of packets received; and~~

~~means for~~ incrementing the number of packets received;

~~means for~~ comparing the incremented number of packets received with one or more of the configuration settings;

~~means for~~ determining an action from a plurality of actions based on the comparing; and

~~means for~~ executing the action.

15. (Previously Canceled)

16. (Previously Canceled)

17. (Previously Canceled)

18. (Original) The computer program product described in claim 14 wherein the method further comprises: further comprising:

~~means for~~ receiving a socket request from the client computer;

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~~means for~~ determining a number of sockets opened for the client computer;

~~means for~~ comparing the number of sockets opened to a socket limit; and

~~means for~~ determining whether to allow a socket request based on the comparison.

19. (Previously Canceled)

20. (Canceled)

21. (Currently Amended) The method of claim 1 wherein the configuration settings include a first limit and a second limit, the method further comprising:

determining that the incremented number of packets exceeds the first limit;

processing the packet and sending a notification in response to determining that the incremented number of packets exceeds the first limit;

receiving a subsequent packet from the client computer;

incrementing again the number of packets in response to receiving the subsequent packet;

determining that the incremented again number of packets exceeds the second limit; and

rejecting the subsequent packet in response to determining that the incremented again number of packets exceeds the second limit.

22. (Currently Amended) The method of claim 1 wherein the configuration settings include a historical usage

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corresponding to the client computer, the method further comprising:

determining that the incremented number of packets is higher than the historical usage; and  
sending a notification in response to determining that the incremented number of packets is higher than the historical usage.

23. (Currently Amended) The information handling system of claim 8 wherein the configuration settings include a first limit and a second limit, the information handling system further comprising:

means for determining that the incremented number of packets exceeds the first limit;

means for processing the packet and sending a notification in response to determining that the incremented number of packets exceeds the first limit;

means for receiving a subsequent packet over the network interface from the client computer;

means for incrementing again the number of packets in response to receiving the subsequent packet;

means for determining that the incremented again number of packets exceeds the second limit; and

means for rejecting the subsequent packet in response to determining that the incremented again number of packets exceeds the second limit.

24. (Currently Amended) The information handling system of claim 8 wherein the configuration settings include a

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historical usage corresponding to the client computer, the information handling system further comprising:  
means for determining that the incremented number of packets is higher than the historical usage; and  
means for sending a notification in response to determining that the incremented number of packets is higher than the historical usage.

25. (Currently Amended) The computer program product of claim 14 wherein the configuration settings include a first limit and a second limit, the method ~~computer program product~~ further comprising:

~~means for~~ determining that the incremented number of packets exceeds the first limit;

~~means for~~ processing the packet and sending a notification in response to determining that the incremented number of packets exceeds the first limit;

~~means for~~ receiving a subsequent packet from the client computer;

~~means for~~ incrementing again the number of packets in response to receiving the subsequent packet;

~~means for~~ determining that the incremented again number of packets exceeds the second limit; and

~~means for~~ rejecting the subsequent packet in response to determining that the incremented again number of packets exceeds the second limit.

26. (Currently Amended) The computer program product of claim 14 wherein the configuration settings include a historical

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usage corresponding to the client computer, the method  
~~computer program product~~ further comprising:  
~~means for~~ determining that the incremented number of  
packets is higher than the historical usage; and  
~~means for~~ sending a notification in response to determining  
that the incremented number of packets is higher than the  
historical usage.

27. (Previously Presented) A method for preventing malicious network attacks on a server computer from a client computer that accesses the server computer via a computer network, said method comprising:  
executing a test script that includes one or more attack simulations from the client computer, the execution of the test script including:  
receiving, at the server computer, one or more packets from the client computer and one or more open socket requests from the client computer;  
deciding a packet threshold for the client computer, the deciding including:  
determining a number of packets received from the client computer during a time interval;  
incrementing the number of packets received from the client computer; and  
comparing the number of packets received with a packet limit stored at the server computer;  
computing an open socket threshold for the client computer, the computing including:  
determining a number of opened sockets for the client computer;

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incrementing the number of opened sockets for the client computer;  
comparing the number of sockets opened from the client computer to a socket limit stored at the server computer; and  
evaluating the packet limit and the socket limit used during the attack simulations, the evaluating including:

analyzing the performance of the server computer during the simulation; and  
adjusting a server configuration setting based on the analysis, wherein the adjusted server configuration setting is selected from group consisting of the stored packet limit and the stored socket limit.

28. (New) The method of claim 1 wherein at least one of the configuration settings are selected from the group consisting of a number of packets allowed, a time interval, a server port, and an overcount action.
29. (New) The information handling system of claim 8 wherein at least one of the configuration settings are selected from the group consisting of a number of packets allowed, a time interval, a server port, and an overcount action.
30. (New) The computer program product of claim 14 wherein at least one of the configuration settings are selected from the group consisting of a number of packets allowed, a time interval, a server port, and an overcount action.

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